**3GPP TSG-SA5 Meeting #139-eS5-215420**

e-meeting, 11 - 20 October 2021 (revision of xx-yyxxxx)

**Source: Ericsson**

**Title: New WID on network slice sharing policy**

**Document for: Approval**

**Agenda Item: 6.2**

3GPP™ Work Item Description

Information on Work Items can be found at <http://www.3gpp.org/Work-Items>   
See also the [3GPP Working Procedures](http://www.3gpp.org/specifications-groups/working-procedures), article 39 and the TSG Working Methods in [3GPP TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm)

Title: Network slice sharing policy

Acronym: NESSHAP

Unique identifier:

{A number to be provided by MCC at the plenary}

Potential target Release: Rel-18

# 1 Impacts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Affects: | UICC apps | ME | AN | CN | Others (specify) |
| Yes |  |  | X | X |  |
| No |  | X |  |  |  |
| Don't know | X |  |  |  | X |

# 2 Classification of the Work Item and linked work items

## 2.1 Primary classification

### This work item is a

|  |  |
| --- | --- |
| X | Feature |
|  | Building Block |
|  | *Work Task* |
|  | Study Item |

## 2.2 Parent Work Item

For a brand-new topic, use “N/A” in the table below. Otherwise indicate the parent Work Item.

|  |  |  |  |
| --- | --- | --- | --- |
| Parent Work / Study Items | | | |
| Acronym | Working Group | Unique ID | Title (as in 3GPP Work Plan) |
|  | N/A |  |  |

### 2.3 Other related Work Items and dependencies

|  |  |  |
| --- | --- | --- |
| Other related Work /Study Items (if any) | | |
| Unique ID | Title | Nature of relationship |
| 760065 | NETSLICE | The related slicing management solution which need improvements |
| eNETSLICE\_PRO | Network slice provisioning enhancement | If agreed??? |

# 3 Justification

Today ServiceProfile and SliceProfile only provide limited support for providing requirements related to network resource sharing. Examples of limitations include:

- Sharing attributes indicate only that sharing is allowed, it cannot be specified that sharing is required. Additionally, in scenarios where sharing is required the relation to other profile(s)must be specified as the requirement would be related to a certain subset of other profiles.

- It is not possible to specify a more granular sharing policy that is related to a specific type of resource, e g AMF.

The use case that is intended to be solved is that an UE takes part of several slices and want to be able to use them simultaneously. That is not possible unless the slices share the same AMF. It means that the slices must share the same AMF, as all simultaneous sessions from a UE only can be served by one AMF.

# 4 Objective

- Use cases and requirements concerning enhanced resource sharing policies in ServiceProfile and SliceProfile.

- Solutions concerning enhanced resource sharingpolicies

Interaction with GSMA may be needed.

# 5 Expected Output and Time scale

|  |  |  |  |
| --- | --- | --- | --- |
| Impacted existing TS/TR {One line per specification. Create/delete lines as needed} | | | |
| TS/TR No. | Description of change | Target completion plenary# | Remarks |
| 28.531 | Documentation of use case and requirements and solutions | Sep 2022 (SA#97) |  |
| 28.541 | Documentation of model solutions | Sep 2022 (SA#97) |  |
|  |  |  |  |

# 6 Work item Rapporteur(s)

Petersen, Robert, Ericsson, [robert.petersen@ericsson.com](mailto:robert.petersen@ericsson.com)

# 7 Work item leadership

SA WG5

# 8 Aspects that involve other WGs

A sharing attribute is included in included in NG.116 from GSMA.

# 9 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| Ericsson |
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